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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N	
10/700,050	11/04/2003	Jin-hwan Kim	Q78037	3115	
23373	7590 08/10/2005		EXAMINER		
SUGHRUE MION, PLLC			TRUONG, BAO Q		
2100 PENNSY	LVANIA AVENUE, N.W.				
SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037			2875		
			DATE MAILED: 08/10/2009	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application	on No.	Applicant(s)				
		10/700,05	0	KIM ET AL.				
		Examiner		Art Unit				
		Bao Q. Tru	gnot	2875				
Period fo	The MAILING DATE of this communication a or Reply	appears on the	cover sheet with the c	orrespondence ad	ldress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a to period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may be patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no evereply within the statuiod will apply and will title, cause the appl	ent, however, may a reply be tim story minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).				
Status				•				
1)⊠	Responsive to communication(s) filed on 04	1 November 20	<u>003</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) 1-28 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1,15-19 and 21 is/are rejected.  Claim(s) 2-14,20 and 22-28 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
10)⊠	The specification is objected to by the Exam The drawing(s) filed on <u>04 November 2003</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt of the oath or declaration is objected to by the	s/are: a)  action action action is required.	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C	FR 1.121(d).			
Priority (	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Information	ot(s) See of References Cited (PTO-892) See of Draftsperson's Patent Drawing Review (PTO-948) See of Draftsperson's Patent (s) (PTO-1449 or PTO/SB/Ser No(s)/Mail Date	08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

Application/Control Number: 10/700,050 Page 2

Art Unit: 2875

#### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Objections

2. Claim 21 is objected to because of the following informalities: "it" in line 4 should be changed to what it refers. Appropriate correction is required.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 15, 16, 17, 19 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Itoh et al. [US 6,805,468].

Regarding claim 1, Itoh et al. discloses a back light unit having a light guide panel [1], a point light source [3], and a refraction member [5] positioned between the point

Application/Control Number: 10/700,050

Art Unit: 2875

light source [3] and the light guide panel [1] to refract light toward the light guide panel (abstract, figures 1-4).

Regarding claims 15 and 16, Itoh et al. discloses the refraction member [5] and the light guide unit [1] being discrete elements and united (figure 1).

Regarding claim 17, Itoh et al. discloses a hollow portion [6b] (figures 1-2).

Regarding claim 19, Itoh et al. discloses a scattering pattern [9] being formed on the light guide member [1] (figures 7-8).

Regarding claim 21, Itoh et al. discloses a backlight unit having a light guide panel [1], a point light source [3], a refraction member [9] being formed in the light guide panel [1] to refract light toward the optical axis of the point light source [3] (figures 7-8).

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Itoh et al. [US 6,805,468] in view of the applicant's admitted prior art.

Regarding claim 18, Itoh et al. discloses a light guide panel [1], but does not disclose the hologram pattern being formed on the light guide panel.

The applicant's admitted prior art of FIG. 2 shows a hologram pattern [30] formed on a light guide panel [10].

Application/Control Number: 10/700,050

Art Unit: 2875

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the light guide panel of Itoh et al. with the hologram pattern as taught by the applicant's admitted prior art to emit light at high efficiency for purpose of providing a uniform brightness to a light guide panel.

## Allowable Subject Matter

- 7. Claims 2-14, 20 and 22-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

Claim 2, the refraction member comprises V-shaped prisms having apexes facing the light guide panel.

Claims 3, 4, 9-14 and 20 are dependent on claim 2.

Claim 5, the refraction member comprises a transparent portion arranged along the optical axis of the light source to prevent light emitted from the light source from being totally reflected.

Claims 6-8 are dependent on claim 5.

Claim 22, the refraction member comprises a hollow portion extending in a direction parallel to a light emitting surface of the light guide panel and a prism array of V-shaped having apexes arranged on an edge of the hollow portion and extending into the hollow portion.

Application/Control Number: 10/700,050 Page 5

Art Unit: 2875

Claims 23-28 are dependent on claim 22.

The limitations discussed above are neither disclosed nor suggested by the prior art of record.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Truong whose telephone number is (571) 272-2383. The examiner can normally be reached on Monday-Friday (8:00 AM - 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Truong Examiner Art Unit 2875

JOHN ANTHONY WARD PRIMARY EXAMINER